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Chapter:- 2

3. Matter Pure around Us

1) Explain How can we separate a mixture of iron filings and Sulphur powder.

ans) We can separate a mixture of iron filings and Sulphur powder by a magnet when we will move the magnet on the mixture the iron filings will stick to the magnet and the Sulphur powder and iron filings were separated.

2) What is Filtration? Explain by an activity.

ans) Filtration is a process that removes particles from suspension in water.

For Example: We need to separate chalk powder from water. For First take a beaker with solution (chalk powder and water), a cloth and ~~an~~ another beaker. Now tie the cloth on the empty beaker, now pour the solution slowly to the empty beaker. Now carefully remove the

cloth and now ~~to~~ in the beaker we get the filtrate that is water after filtration and on the cloth we get the ~~residue~~ residue that is ~~chalk~~ chalk powder.

3) Why is it necessary to separate the components of a mixture?

ans) Separation of the ~~most~~ mixture is important ~~because~~ so that the desired ~~substance~~ components can be obtained from a mixture.

4) Explain, how one can obtain pure water from the sea water?

ans) We can obtain pure water from the sea water by Distillation. In this process we need a burner, stand, flask, some ~~more~~ pair of glass rods, a water condenser and a beaker. Now first setup the whole thing then pour the solution in the ~~fl~~ flask, then start to boil the water, ~~even~~ when you see that ~~water~~ water starts to ~~boil~~ boil, run the water through water condenser to get the evaporated water as liquid and the salt will be in the flask.